



NASA White Sands Test Facility

Honeywell

Analysis of 2004 Round Robin Tests 1 and 4 Data

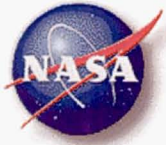
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**Test 1 Data Analysis
2004
Kydex, WSTF No. 04-38645
25.9% O₂ @ 14.3 psia
Test Results (Burn Lengths, cm)**

JAXA	MSFC	ESA	WSTF
6.5	7.6	1.0	4.6
5.5	6.6	5.1	5.6
4.5	6.1	5.1	5.6
4.3	6.6	5.4	5.3
5.5	6.9	5.6	5.1



Test 1 Data Analysis (Continued)
Kydex, 30% O₂ @ 10.2 psia
Test Results (Burn Lengths, cm)

JAXA	MSFC	ESA	WSTF
5.0	7.9	6.0	5.3
5.5	7.6	5.8	5.8
5.0	7.4	5.9	5.1
6.7	9.9	14.8	5.3
5.5	7.4	5.7	5.6



Test 1 Data Analysis (Continued)
Royal Blue Cotton, Flame Resistant (WST No. 04-38644)
30% O₂ @ 10.2 psia
Test Results (Burn Lengths, cm)

JAXA	MSFC	ESA	WSTF
9.5	10.4	14.0	10.7
9.0	16.8	10.5	10.7
10.5	9.7	10.5	11.2
12.0	10.7	10.0	11.7
10.5	10.7	10.0	11.4



Test 1 Data Analysis (Continued)
Silicone
20.9% O₂ @ 14.7 psia
Test Results (Burn Lengths, cm)

JAXA	MSFC	ESA	WSTF	KSC
16.5	11.7	7.5	9.1	7.6
13.0	10.9	7.4	7.6	10.2
11.0	14.0	6.8	10.4	10.2
13.0	9.7	7.3	11.7	10.2
11.5	10.4	7.6	10.2	8.9



Test 4 Data Analysis
Raychem Electrical Wire, MIL M22759/32-20-9
30% O₂ @ 10.2 psia
Test Results (Burn Lengths, cm)

JAXA	MSFC	WSTF
5.5	10.9	28.7
10.3	5.3	26.7
11.3	15.0	29.7
13.0	21.1	17.0
11.5	24.6	16.0



Test 4 Data Analysis
Raychem Electrical Wire, MIL
M81044/12-20-9
20.9% O₂ @ 14.7 psia
Test Results (Burn Lengths, cm)

JAXA	MSFC	WSTF	ESA
5.7	9.4	7.4	6.0
6.0	6.6	8.1	5.5
6.0	5.8	7.9	7.5
10.0	6.4	4.6	5.0
7.0	11.4	6.1	5.0